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J11690 U.S. PTO

TITLE: DISPLAY SEAT FOR GLASS AND CRYSTAL ARTICLES OF
DISPLAY

BACKGROUND OF THE INVENTION

(a) Field of the Invention:

5 The present invention relates to a display seat for glass and crystal articles of display, more particularly to a display seat which includes a seat body made of a transparent plastic material or glass and formed with a recess for receiving therein a circuit substrate board that has a plurality of light emitting diodes disposed thereon. The display seat is also formed with shallow grooves adapted for placement of round or curved articles of display therein. Beams of light emitted from the light emitting diodes pass through the seat body onto the articles of display placed on the display seat, thereby eliminating the trouble of mounting lighting fixtures to light up the articles of display.

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(b) Description of the Prior Art:

15 In exhibitions or shops that display arts of craft, such as glass and crystal articles, in order to highlight the beauty or contour of the articles of display, lighting fixtures are mounted to radiate light on the articles of display. However, the lighting fixtures are relatively bulky, inconvenient to install or disassemble, and entail troublesome work of wiring. Besides, they are

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comparatively costly and inconvenient to carry to exhibition sites for quick installation.

SUMMARY OF THE INVENTION

Therefore, the primary object of the present invention is to provide a display seat for glass and crystal articles of display, which includes a seat body that is a plate or a layered plate formed from a transparent plastic material or glass. The seat body has a bottom portion formed with a recess. A circuit 5 substrate board having a plurality of light emitting diodes is insertably disposed in the recess. The display seat can be connected to an external power source or a battery source to establish electrical connection for activating the light emitting diodes. Shallow grooves can be formed in a top portion of the seat body for placement of round or curved articles of display. Beams of light 10 emitting from the light emitting diodes penetrate through the plastic or glass seat body toward the articles of display on the seat body. There is no need to provide additional lighting.

Another object of the present invention is to provide a display seat for glass and crystal articles of display, in which a light source is directly mounted 15 in a seat body and is connectable to an external power source so that the display seat can be carried conveniently to an exhibition site or the like for quick installation.

A further object of the present invention is to provide a display seat for glass and crystal articles of display, which can be adopted as a shelf of a display 20 cabinet or rack, and which can be used to provide a light source that radiates upwardly or downwardly, which can be connected to a direct current power source, and which can serve as a night light or a lighting device.

BRIEF DESCRIPTION OF THE DRAWINGS

The foregoing and other features and advantages of the present invention will be more clearly understood from the following detailed description and the accompanying drawings, in which,

5 Figure 1 is a perspective view of the first preferred embodiment of the invention;

Figure 2 is an exploded perspective view of the first preferred embodiment of the invention;

10 Figure 3 is a sectional view of the first preferred embodiment of the invention;

Figure 4 is a perspective view of the second preferred embodiment of the invention;

Figure 5 is an exploded perspective view of the second preferred embodiment of the invention;

15 Figure 6 is a sectional view of the second preferred embodiment of the invention; and

Figure 7 is a perspective view of the invention when adapted for use in a display cabinet.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

20 With reference to the drawings, the present invention includes a seat body 1, light emitting diodes 2, and a circuit substrate board 3. The seat body 1 is a plate or layered plate formed from a transparent plastic material, such as acrylic,

or glass, and has a bottom portion formed with a recess 10 for receiving the circuit substrate board 3 inserted therein. The circuit substrate board 3 has a suitable number of light emitting diodes 2 disposed thereon. The recess 10 of the seat body 1 is further formed with cavities 11 for accommodating the light emitting diodes 2 at corresponding positions. The circuit substrate board 3 is disposed to connect to an external power source or a battery unit so as to establish electrical connection for supplying electric power to the light emitting diodes 2. If necessary, a top portion of the seat body 1 can be formed with shallow grooves 4 for receiving round or curved articles of display. In addition, the circuit substrate board 3 has a connecting circuit provided with an electronic control to control movement and flashing of the lights so as to provide a multifarious visual effect. The light emitting diodes 2 can also be mounted below the circuit substrate board 3 to emit light downward and toward a shelf below.

In actual use, the present invention is placed on a shelf of a display cabinet or display rack at a suitable position. Then, articles of display are put on the seat body 1. Round and curved articles of display can be arranged in the shallow grooves 4 so as to be prevented from slipping. The circuit substrate board 3 is subsequently connected to the power source or the battery unit so as to turn on the light emitting diodes 2. The beams of light emitted from the light emitting diodes 2 penetrate through the seat body 1 toward the articles of display on the seat body 1 so as to light up the articles of display. The light

emitting diodes 2 emit soft light, consumes a small amount of electric power to permit prolonged use, would not cause damage to the articles of display, and can be used in conjunction with wooden seats. In addition, as they can be connected to the power source conveniently, and have an integral structure, the
5 size or weight of the seat body 1 will not be increased. As such, the present invention is convenient to carry and used for display purposes. Furthermore, the present invention is inexpensive to fabricate, and can serve as a shelf of a display cabinet. The present invention can also serve as a night light or a lighting device.

10 Although the present invention has been illustrated and described with reference to the preferred embodiment thereof, it should be understood that it is in no way limited to the details of such embodiments but is capable of numerous modifications within the scope of the appended claims.

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